Caleb Kwabena Kyere Boateng

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• portfolio • linkedin • github

Computer Science undergraduate with hands-on experience in network security analysis and software development. Team player with strong communication abilities, high quality of work, driven and highly self-motivated. Strong technical acumen in network protocols, and modern development frameworks, able to work independently and collaboratively to deliver results.

Experience

2025 – PRESENT

Student Researcher | Computer Science Society | KNUST, Kumasi

Conduct applied research within the Computer Science Society at KNUST, Ghana, contributing to collaborative projects aligned with emerging computer science trends. Support project design, documentation, and peer knowledge sharing while maintaining ethical and academic research standards. Foster an engaging research environment that strengthens student participation and technical skill development.

SEPTEMBER 2025 – NOVEMBER 2025

Security Intern | Information Security and Technology Assurance Division | KNUST, Kumasi

Performed network security analysis to safeguard university digital assets within the Information Security and Technology Assurance Division at KNUST. Analyzed student portal traffic using Wireshark to detect anomalies and used Nmap for port scanning and host discovery to identify potential vulnerabilities. Supported vulnerability assessment, penetration testing activities, and security policy documentation.

Certifications & Licenses

Certified Network Security Practitioner (CNSP) – The SecOps Group (*Issued Nov 2025*)

Focus: Defensive Security, Network Protocol & Traffic Analysis.

Certified Cybersecurity Educator Professional (CCEP) – Red Team Leaders (*Issued Nov 2025*)

Focus: Network Security, Information Security Architecture.

Network Technician Career Path – Cisco Networking Academy (*Issued Jan 2026*)

Focus: Network Technician, Troubleshooting

Research Methodologies in Strategy and Product Development – Institute of Management, Technology and Finance (*Issued Jul 2025*)

Projects

Looply - Food Delivery System (CodeFest '25) | *May 2025 – Aug 2025*

Achieved 1st Runner-up position in the 2025 CodeFest competition organized by the KNUST Department of Computer Science. Served as the principal frontend developer, building a comprehensive food delivery mobile application using React Native and Bootstrap, inspired by Hubtel, and collaborated within a team to deliver a functional product prototype.

Ephemeral chat – Real-Time Messaging System | Aug *2025 – Present*

Architect and deploy a real-time messaging platform using WebSocket and Node.js to enable secure, zero-persistence communication. Implement a memory-only data structure to ensure chat history is never stored, eliminating risks from persistent storage. Integrate Socket.io for low-latency, bi-directional messaging and collaborating on frontend design using modern frameworks to deliver a responsive, intuitive interface with strict client-side privacy controls.

Download: 'Ephchat' on Microsoft store| Source Code: github.com/cLLeB/ephemeral-chat

Education

JAN 2024 – NOV 2027

BSc. Computer Science | Kwame Nkrumah University of Science and Technology (KNUST) | Kumasi, GH

3.70 GPA • Member of university's Peer Counseling

Activities

Literature • Chess • Travel